

Weather Synopsis 2nd—6th



Hartley
Nature Center

MN Academic Standards

supported during HNC program.
More standards can be supported
with pre- and post lesson activities.

Science

- 2.1.1.2.1 Scientific inquiry
- 2.3.2.2.1 Weather can be described in measurable quantities
- 3.1.3.4.1 Use tools to observe
- 4.2.1.1.1 Measure temperature
- 4.3.2.3.1 Water cycle
- 5.1.3.4.1 Use tools to gather, analyze, and interpret data
- 5.1.1.1.1 Scientific evidence, record keeping
- 5.1.1.1.2 Science is replicable
- 5.1.3.4.1 Use tools to gather data
- 6.1.3.4.1 Safe and appropriate ways to gather data

Language Arts

- 2.8.1.1 C, E, 2.8.3.3, 3.8.1.1 C, D, F,
- 3.8.3.3, 4.8.1.1 C, D, 5.8.1.1 C, D, 6.9.1.1 C, D

Math

- 2.2.1.1 Number patterns such as skip counting
- 3.3.3.4 Thermometer to take temperature

Authenticity

Students collect their own weather data and compare it to HNC's weather station data and professional weather reports/forecasts.

Goals & Objectives

This program will:

- Collect real weather data
- Interpret observations and data
- Forecast the weather based on observations and data (grades 4+)

Students will be able to:

- Accurately use a thermometer, wind gauge, compass to collect data
- Identify three main types of clouds.
- Record data as a group
- Create a weather forecast using data collected and tools used as props (grades 4+)

Activities

In the Classroom

- Create A Cloud—students learn the main ingredients of a cloud and create a cloud in the classroom.

In the Field

- Use data sheets and tools to record various weather data. Make observations and discuss what they mean.
- Water cycle—Through skits or songs, create the water cycle using vocab words like condensation, precipitation, and evaporation.
- Students compile and analyze collected data to create their own weather forecast live from Hartley Park. (grades 4+)

Bad Weather Alternative

- Water cycle—Through skits or songs, create the water cycle including vocab words like condensation, precipitation, and evaporation.
- Students will quickly go outside to get their data then go back inside for a discussion.
- Put on a play about clouds that will help students remember the three main cloud types.